PATENT 2003-IP-012188U1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	David P. Craig)	Art Unit:	Unknown
Serial No.:	Unknown)	AIC OHIC.	OHRHOWH
Filed:	Concurrently Herewith)	Examiner:	Unknown
For:	Methods and Apparatus For Estimating Physical Parameters of Reservoirs Using Pressure Transient Fracture Injection/ Falloff Test Analysis)))))		

INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

OTHER PRIOR ART

MAYERHOFER, M.J. AND ECONOMIDES, M.J.: "PERMEABILITY ESTIMATION FROM FRACTURE CALIBRATION TREATMENTS," PAPER SPE 26039, PRESENTED AT THE 1993 WESTERN REGIONAL MEETING, ANCHORAGE, AK;

MAYERHOFER, M.J., EHLIG-ECONOMIDIES, C.A. AND ECONOMIDES, M.J.: "PRESSURE-TRANSIENT ANALYSIS OF FRACTURE-CALIBRATION TESTS," JPT, 229;

EHLIG-ECONOMIDES, C.A., FAN, Y., AND ECONOMIDES, M.J.: "INTERPRETATION MODEL FOR FRACTURE CALIBRATION TESTS IN NATURALLY FRACTURED RESERVOIRS," PAPER SPE 28690 PRESENTED AT THE 1994 SPE INTERNATIONAL PETROLEUM CONFERENCE AND EXHIBITION OF MEXICO, VERACRUZ, MEXICO;

GRINGARTEN, A.C., RAMEY, H.J., JR., RAGHAVAN, R.: "UNSTEADY-STATE PRESSURE DISTRIBUTIONS CREATED BY A WELL WITH A SINGLE INFINITE-CONDUCTIVITY VERTICAL FRACTURE," SPEJ, 347;

CINCO-LEY, H. AND SAMANIEGO-V., F.: "TRANSIENT PRESSURE ANALYSIS: FINITE CONDUCTIVITY FRACTURE CASE VERSUS DAMAGE FRACTURE CASE," PAPER SPE 10179, PRESENTED AT THE 1981 SPE ANNUAL TECHNICAL CONFERENCE AND EXHIBITION, SAN ANTONIO, TX;

NOLTE, K.G.: "A GENERAL ANALYSIS OF FRACTURING PRESSURE DECLINE WITH APPLICATION TO THREE MODELS," SPEFE, 571;

Valkó, P. and Economides, M.J.: "Fluid-Leakoff Delineation in High-Permeability Fracturing," SPEPF, 117;

CINCO-LEY, H. AND MENG, H.-Z.: "PRESSURE TRANSIENT ANALYSIS OF WELLS WITH FINITE CONDUCTIVITY VERTICAL FRACTURES IN DUAL POROSITY RESERVOIRS," PAPER SPE 18172 PRESENTED AT THE 1988 SPE ANNUAL TECHNICAL CONFERENCE AND EXHIBITION, HOUSTON, TX.;

WARREN, J.E. AND ROOT, P.J.: "THE BEHAVIOR OF NATURALLY FRACTURED RESERVOIRS," SPEJ, 245;

AL-HUSSAINY, R., RAMEY, H.J., JR., CRAWFORD, P.B.: "THE FLOW OF REAL GASES THROUGH POROUS MEDIA," JPT, 624;

AGARWAL, R.G.: "REAL GAS PSEUDO-TIME – A NEW FUNCTION FOR PRESSURE BUILDUP ANALYSIS OF MHF GAS WELLS," PAPER SPE 8279 PRESENTED AT THE 1979 SPE ANNUAL FALL TECHNICAL CONFERENCE AND EXHIBITION, LAS VEGAS, NV.;

MEUNIER, D.F., KABIR, C.S., AND WITTMAN, M.J.: "GAS WELL TEST ANALYSIS: USE OF NORMALIZED PSEUDOVARIABLES," PEFE, 629;

AZIZ, K., MATTAR, L., KO, S., AND BRAR, G.S.: "USE OF PRESSURE, PRESSURE-SQUARED OR PSEUDO-PRESSURE IN THE ANALYSIS OF TRANSIENT PRESSURE DRAWDOWN DATA FROM GAS WELLS," J. CDN. PETR. TECH., 58; AND

Valkó, P. and Economides, M.J.: "Linear Elasticity, Fracture Shapes, and Induced Stresses," Hydraulic Fracture Mechanics, John Wiley & Sons, New York City, Chap. 2, 19-51.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

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Duncan, OK 73536-0440

580-251-3125

PTO-1449					Application No. Unassigned Docket Number		Applicant(s) CRAIG, DAVID P.				
Information Disclosure Citation in an Application				roup Art Unit				Filing Date			
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	1	MAYERHOFER, M.J. AND ECONOMIDES, M.J.: "PERMEABILITY ESTIMATION FROM FRACTURE CALIBRATION TREATMENTS," PAPER SPE 26039, PRESENTED AT THE 1993 WESTERN REGIONAL MEETING, ANCHORAGE, AK. MAY 26-28, 1993									
	2	MAYERHOFER, M.J., EHLIG-ECONOMIDIES, C.A. AND ECONOMIDES, M.J.: "PRESSURE-TRANSIENT ANALYSIS OF FRACTURE-CALIBRATION TESTS," JPT, 229. MARCH 1995									
	3	EHLIG-ECONOMIDES, C.A., FAN, Y., AND ECONOMIDES, M.J.: "INTERPRETATION MODEL FOR FRACTURE CALIBRATION TESTS IN NATURALLY FRACTURED RESERVOIRS," PAPER SPE 28690 OCTOBER PRESENTED AT THE 1994 SPE INTERNATIONAL PETROLEUM CONFERENCE AND EXHIBITION OF MEXICO, VERACRUZ, MEXICO.									
	4	GRINGARTEN, A.C., RAMEY, H.J., JR., RAGHAVAN, R.: "UNSTEADY-STATE PRESSURE DISTRIBUTIONS CREATED BY A WELL WITH A SINGLE INFINITE-CONDUCTIVITY VERTICAL FRACTURE," SPEJ, 347. AUGUST, 1974									
	5	CINCO-LEY, H. AND SAMANIEGO-V., F.: "TRANSIENT PRESSURE ANALYSIS: FINITE CONDUCTIVITY FRACTURE CASE VERSUS DAMAGE FRACTURE CASE," PAPER SPE 10179, PRESENTED AT THE 1981 SPE ANNUAL TECHNICAL CONFERENCE AND EXHIBITION, SAN ANTONIO, TX.									
	6	THREE MODELS," SPEFE, 571.						ember, 986			
	7	Valkó, P. and Economides, M.J.: "Fluid-Leakoff Delineation in High-Permeability Fracturing," SPEPF, 117. May, 1999							, 1999		
EXAMINER DATE CONSIDERED											
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PTO-1449 Information Disclosure Citation in an Application					Application No. Unassigned	Applicant	Applicant(s) CRAIG, DAVID P.				
					Docket Number	Group Art	1	Filing Date			
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	8	CINCO-LEY, H. AND MENG, HZ.: "PRESSURE TRANSIENT ANALYSIS OF WELLS WITH FINITE CONDUCTIVITY VERTICAL FRACTURES IN DUAL POROSITY RESERVOIRS," PAPER SPE 18172 PRESENTED AT THE 1988 SPE ANNUAL TECHNICAL CONFERENCE AND EXHIBITION, HOUSTON, TX.									
	9	WARREN, J.E. AND ROOT, P.J.: "THE BEHAVIOR OF NATURALLY FRACTURED RESERVOIRS," SPEJ,							SEPTEMBER, 1963		
	10	AL-HUSSAINY, R., RAMEY, H.J., JR., CRAWFORD, P.B.: "THE FLOW OF REAL GASES THROUGH POROUS MEDIA," JPT, 624.						May, 1966			
	11	AGARWAL, R.G.: "REAL GAS PSEUDO-TIME – A NEW FUNCTION FOR PRESSURE BUILDUP ANALYSIS OF MHF GAS WELLS," PAPER SPE 8279 PRESENTED AT THE 1979 SPE ANNUAL FALL TECHNICAL CONFERENCE AND EXHIBITION, LAS VEGAS, NV. SEPTEMBE 23-26, 19									
	12	MEUNIER, D.F., KABIR, C.S., AND WITTMAN, M.J.: "GAS WELL TEST ANALYSIS: USE OF NORMALIZED PSEUDOVARIABLES," PEFE, 629.						DECEMBER, 1987			
	13	AZIZ, K., MATTAR, L., KO, S., AND BRAR, G.S.: "USE OF PRESSURE, PRESSURE-SQUARED OR PSEUDO-PRESSURE IN THE ANALYSIS OF TRANSIENT PRESSURE DRAWDOWN DATA FROM GAS WELLS," J. CDN. PETR. TECH., 58.							-		
	14	VALKÓ, P. AND ECONOMIDES, M.J.: "LINEAR ELASTICITY, FRACTURE SHAPES, AND INDUCED STRESSES," HYDRAULIC FRACTURE MECHANICS, JOHN WILEY & SONS, NEW YORK CITY, CHAP. 2, 19-51.									
EXAMINER					DATE CONSIDER	TE CONSIDERED					
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